



zx mushroom club

IN 1984
MAILED FROM THE
10 (00) MARCH
TELEX 10000 S.A.

NEW THE Z88



Comments

Allows a file name and its
to be selected and executed.

Catalogue window

List of the files and directories
in the current directory

Directory

Shows the currently selected
device and directory



THE FOLLOWING WERE ON THE SHIPMENT WHICH IS OUT ON AUGUST 1st.

Witchhatch 1 1/2" Drives	495 00	Drill Bit 4	14 00
Micro Use and Learn	8 00	Copy-By Bits	59 99
GL to MSX Printer Cable	20 00	Yarn Loop	50 15
View to a Kill	20 00	Hydra Pool	51 00
Light Force	20 00	Colours & Games	20 00
480 Block Manager	20 00	Slider Rider	51 00
Lord of the Rings	20 00	Short Circuit	27 00
Interface 1	20 00	Head Ball	51 00
Mailbox - Amstrad	140 00	The Pass 1282	50 12
Mailbox - 128+	140 00	Acc	20 00
Mailbox One (Spectrum)	140 00	The Water	51 00
FIS Strike Eagle	10 00	Edison Service	20 00
Space Master	24 00	Gun Hammer	51 00
Hit Pack 4 from Elite	20 00	Softail	20 00
Don Dora	51 00	4 Great Games	0 00
Their Finest Hour	54 00	Snakejack II	27 00
Little Computer People	54 00	Spectrum 1	400 00
Leader Board	20 00	GL	440 00
Space on 128	20 00	Cartidge (microdrive)	0 00
Countlet	20 00	Disciple Ver 3.0	250 00
Byte Discy	54 00	Mailprint from Romantic Robot	100 00
See of Ace	20 00		
Ref Widescreen Monty	51 00		

THE GREAT ESCAPE

Written by MICHAEL BISHOP

I have some tips on this great game from OCEAN. To start with go to room C, activate the BEEs box and you will find a bag of provisions. Take the bag and drop it near the guards. Get captured and when you are released get the bag again and drop it in room C. Activate the second box. You will find a pair of wirecutters. Drop the wirecutters next to the bag. Now go to room B. Take the key you find there and go to room E. Then go HANDEL. Take the German uniform and activate it. Keep dropping it and activating it until you have full marks and use it to keep it topped up. Go back to where you left the wire cutters and drop the wirecutters near a guard. Get captured. When you are released get the wirecutters and go and activate the next box in room C. You will find a knife (this is not vital to the escape). Drop it in front of a guard, get caught and take it to room C. Activate the final box and you will find a compass. Top up your marks with the uniform and you are ready to begin your Great Escape.

Take the wire cutters and the bag of provisions and head down and across to the exercise area. As soon as it is exercise time go into the exercise area and cut the top fence near the gate and the watchtower. When you are through, drop the provisions and go back into the camp for the compass do the same for the compass. When you have got the compass out drop the wirecutters and pick up the provisions. If you have no compass and the provisions walk off the screen. A message appears saying that you have escaped and will cross the border safely.

The Items.

- compass - this is used in the escape. If you do not have it you will be recaptured
- knife - used to explore tunnels
- key - activate and give to a prisoner: a diversion will be caused
- provisions - used in escape
- papers - can be used instead of provisions
- lockpick - useful to unlock doors
- spade - clears blockage in tunnel
- keys - unlock doors
- radio - your guess is as good as mine
- poison - poison food
- food - can be poisoned but what then?
- uniform - allows access to places out of bounds

Now do you get the subject in the bottom hat?



Our Editor is in a festive mood at the annual INFORMATION ENTERPRISES co-bread. Asked how he liked it, he muttered "Well done".

THE ONLY TRUE INFORMATION WHO IS INTERESTED IN INFORMATION.



THE IN MARCHROOM
CLUB, REVEALING IS
THE MONTPELIER OF YOU.
THE MEMBER.

YOUR VIEW, NEWS,
REVIEWS AND ARTICLES
SHOULD APPEAR IN THE
REVEALING.

THE REVEALING WILL BE
ALLOWED TO MARCHROOM
INTO A MARCHROOM IN THE
TRUE REVEAL OF THE FORD
IN FOR CONTINUOUS
TOWARD ITS CONTENTS.

WE DON'T SEE THE WAY
WE HAVE FOR YOUR
CONTRIBUTION AS
FURNISH. HOWEVER, IT
SHOULD FURNISH YOU TO
PUT FUN TO PAPER AND
SHARE YOUR KNOWLEDGE
WITH YOUR FELLOW
MEMBERS.

* All members of the club, including all length
and width in the of 10 off members.

SL-80AI

SEIKOSHA

Versatility, excellent printing quality, the real 24-pin printer

Features

- Very better quality printing for 24 pins
- Lower quality printing speed 24 pins
- Featuring EPSON 12" and 18" mode
- Just open for automatic release (as low as 10 mHz)
- Variety of printing styles-Double Width, Bold, Double Strike, Italic, Superscript, Subscript and Underlining
- 10 levels of high resolution for addressable graphics printing
- Automatic paper loading and ejection system
- Download character setting program 28 characters
- Quick margin setting by the front panel
- adjust in 10 K buffer
- Optional Automatic Cut Sheet Feeder



Specifications

Printing Method	Impact Dot Matrix Method
Print Method	8 horizontal characters printing 28 horizontal graphics printing
Print Head	24 pins
Printing Speed	3000 LPS Print 1000 LPS Print
Horizontal Line Feed/Min	10/100 1/100 1/100 1/100 1/10 1/10 1/10 1/10
Line Feed Speed	10/100 1/100 1/100 1/100
Character Set	100 characters and control 40 international characters
Character Attributes	Double Width, Bold, Double Strike Italic, Superscript/Subscript and Underlining
Automatic Margin Setting	Yes
Automatic Paper Loading	Yes
Automatic Paper Ejection	Yes
Automatic Paper Feeder	Optional
Automatic Paper Cutter	Optional

Interface	Centronics compatible
Printer Buffer	100 byte buffer (25 byte when standard interface is set)
Dot Matrix	10/100 1/100 1/100 1/100
Type	Special cassette tape reader
Line	10/100 1/100 1/100 1/100
Character	10/100 1/100 1/100 1/100
Power Supply	100VAC 100W max (50 to 60Hz, 50% variation)
Operating Temperature	10°C to 30°C 40°F to 85°F
Relative Humidity	20 to 80% (RH) (non condensation)
Physical Size	500 x 500 x 150 mm (W x D x H) 19.7 x 19.7 x 5.9 inch (W x D x H)
Weight	8.7 kg 19.2 lb
Option	Automatic Cut Sheet Feeder 50-020 (500-00000)

Character Specification Table

Character	10/100 Mode								1/100 Mode								50/50 Mode							
	Print				Dot				Print				Dot				Print				Dot			
	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Print Head	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Print Head	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Print Head	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Print Head	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Print Head	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Print Head	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

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ROMANTIC ROMOT
data

This month, for the whole month...

ARISTAR PC1612, including **512K** memory, **2**
1 **3400** floppy drives, monochrome
monitor, mouse, **MSDOS 5.2**, **CGM** desktop,
Compoint, Dos Plus 2, Locomotive Basic
2, Joylink Port and both **RS232C** and
parallel printing ports. Don't forget, if
you are waiting your time comparing
prices, it has an **8088** processor.

PLUS

The **Schmida 18042** Dos Matrix Printer-

ONLY RENT & CRT & Postage

(or as above with colour monitor **RM750**)

1-off Sage Graphpad with **Style** interfaces
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Essentially the same as a screen but
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- It's normal price **Only 899.00**
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BAR ON BART - E.G.E.

14 Great Games on One Tape:-
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Warlords, **Head Banger's** **Baron**, **Report** &
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Spiders, **Mr** **Frank**, **Dr** **Franky** & **the**
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REVIEW

Collins Gem Revision Software Biology
10 Level
R20-40 £8.90

This program comes on a cassette and includes a very good Collins Gem Basic Facts Biology dictionary pocket which deals with everything from Adamans to Zygote.

It is packed in a neat box which contains the cassette and the dictionary and will fit neatly onto a shelf.

On the cassette are 8 programs. The first is a Tester program which gives quick tests on the following aspects: Plant structure, Transport in plants, Photosynthesis, Food and Teeth, Digestion, Blood and Circulation, Breathing, Excretion, Human sexual reproduction, Nerve and senses, Flowers, Fruits and seeds, Ecology, Genetics and evolution. After a particular section is chosen, questions are asked eg. A blood vessel which carries an artery to a vein (H) and the answer should be typed in. If you enter an incorrect answer the first letter of the correct answer is given, the second time you are referred to the Gem Dictionary. At the end of a series of questions, a percentage is given and you are told which program you should do to improve your knowledge.

Programs 2 to 4 deals with diagrams. Diagrams of flower structures, eye structure, section through a leaf, section through the human kidney tubule, human digestive system, the nitrogen and carbon cycles, the circulatory system, heart and digestive system are amongst those dealt with.

Programs 5 and 6 have more questions on photosynthesis, respiration, food and feeding, genetics, reproduction, transport in animals, plant and water and osmosis.

Programs 7 and 8 comprises of games organized around a game of darts. Both programs cover Gamification Food and Feeding, Water relations and Ecology.

SPECTRUM 488

COLLINS GEM

REVISION SOFTWARE

BIOLOGY

10 LEVEL (AGE 14-15)



These programs are of the best quality (certainly better than some other educational software I've used), and deals with subjects taught to Standards 8 to 10 in South Africa. It will not replace a text book, but certainly will give you a fair idea of how up-to-date your knowledge is before you write a test/exam. I think it is ideal for revision.

The dictionary on its own, is certainly worth a lot.

Also in this series - Chemistry, Physics and Computer Studies Office are not yet available through TEL.

It is not only about biology, there are also other subjects like physics, chemistry, computer studies, etc. The program is very easy to use and the questions are very clear. The program is very easy to use and the questions are very clear. The program is very easy to use and the questions are very clear.

Program 1: Biology (ages 14-15) - £8.90
Program 2: Chemistry (ages 14-15) - £8.90
Program 3: Physics (ages 14-15) - £8.90
Program 4: Computer Studies (ages 14-15) - £8.90

These are the only software programs available for the Spectrum 488. The program is very easy to use and the questions are very clear. The program is very easy to use and the questions are very clear.

Program 5: Biology (ages 14-15) - £8.90
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Program 26: Chemistry (ages 14-15) - £8.90
Program 27: Physics (ages 14-15) - £8.90
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The Editor pictured with EMORY's microphones in his face during an interview with Mr. Watske in which he commented to the allegations made in an ecological study group report that the sudden increase in the MUDROOM CLUB's membership may harm the deer-habitat population. He calmly replied that our members are not kept in the dark and fed you-know-what to which Mr. Watske replied "Oh, really...right?"

[illegible]

The correct answer is Jan Harris.
The winners are Tony Cartwright, Mr. B
Lambert and C.H. Hanson.
(Continued)

Abstract

Send the answer to the following question on the back of a post card to reach us before August 29th. There are three prizes, \$104, \$200 and \$500 in gift certificates.

QUESTION: Name ten of the locally produced products promoted by The 28 Marketing Club.

• BACKUP •

THE EFFECTS OF ACADEMIC BURNOUT ON THE WELL-BEING OF THE STUDENTS

THE UNIVERSITY OF CHICAGO PRESS

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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6. NAME, DATE, WEIGHT, HEIGHT AND SEX, AND, INCLUDING MEASUREMENTS FROM STANDARD POSITION ARE RECORDED (C)
7. BLOOD PRESSURE (SYSTOLIC AND DIASTOLIC) IS TAKEN (C), IS CLASSED (NORMAL OR HIGH OR LOW), RECORDED (C) AND IS CLASSIFIED (C) AND YES (C) (C)
8. AN X-RAY OF STOMACH CAN BE TAKEN AND FILED (C) TO 41.20, 42-43 (C), FROM 44-45 (C) OR RECORDED IN SUBJECT'S MEDICAL RECORD (C)
9. STOMACH CAN BE TAPED AT ONE INCHES FROM THE NAVE IN SEVERAL PLACES (C)
10. A GAS PNEUMOTIC IN LUNG TAPES CONTAINS ONE INCHES LENGTH OF GAS (C) (C) (C)
11. STOMACH TAPING CAN BE DONE TO PREVENT _____ AND PREVENT 12 INCHES LENGTH OF PRESENT AND FUTURE TAPES, AFTER ONE INCHES OF TAPES ARE (C)
12. THE SUBJECTS TAPES ARE NOT SETTING TO CHANGE FROM _____
13. COMPLAINTS ARE MADE WITH PAINFUL, EXTREMELY AND PAINFUL, _____
14. NOTHING, CONTRAST TO THE SUBJECT, WHICH MAY BE PARTICULAR MEASUREMENTS, 1.2, 1.5, 1.8, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0, 13.5, 14.0, 14.5, 15.0, 15.5, 16.0, 16.5, 17.0, 17.5, 18.0, 18.5, 19.0, 19.5, 20.0, 20.5, 21.0, 21.5, 22.0, 22.5, 23.0, 23.5, 24.0, 24.5, 25.0, 25.5, 26.0, 26.5, 27.0, 27.5, 28.0, 28.5, 29.0, 29.5, 30.0, 30.5, 31.0, 31.5, 32.0, 32.5, 33.0, 33.5, 34.0, 34.5, 35.0, 35.5, 36.0, 36.5, 37.0, 37.5, 38.0, 38.5, 39.0, 39.5, 40.0, 40.5, 41.0, 41.5, 42.0, 42.5, 43.0, 43.5, 44.0, 44.5, 45.0, 45.5, 46.0, 46.5, 47.0, 47.5, 48.0, 48.5, 49.0, 49.5, 50.0, 50.5, 51.0, 51.5, 52.0, 52.5, 53.0, 53.5, 54.0, 54.5, 55.0, 55.5, 56.0, 56.5, 57.0, 57.5, 58.0, 58.5, 59.0, 59.5, 60.0, 60.5, 61.0, 61.5, 62.0, 62.5, 63.0, 63.5, 64.0, 64.5, 65.0, 65.5, 66.0, 66.5, 67.0, 67.5, 68.0, 68.5, 69.0, 69.5, 70.0, 70.5, 71.0, 71.5, 72.0, 72.5, 73.0, 73.5, 74.0, 74.5, 75.0, 75.5, 76.0, 76.5, 77.0, 77.5, 78.0, 78.5, 79.0, 79.5, 80.0, 80.5, 81.0, 81.5, 82.0, 82.5, 83.0, 83.5, 84.0, 84.5, 85.0, 85.5, 86.0, 86.5, 87.0, 87.5, 88.0, 88.5, 89.0, 89.5, 90.0, 90.5, 91.0, 91.5, 92.0, 92.5, 93.0, 93.5, 94.0, 94.5, 95.0, 95.5, 96.0, 96.5, 97.0, 97.5, 98.0, 98.5, 99.0, 99.5, 100.0, 100.5, 101.0, 101.5, 102.0, 102.5, 103.0, 103.5, 104.0, 104.5, 105.0, 105.5, 106.0, 106.5, 107.0, 107.5, 108.0, 108.5, 109.0, 109.5, 110.0, 110.5, 111.0, 111.5, 112.0, 112.5, 113.0, 113.5, 114.0, 114.5, 115.0, 115.5, 116.0, 116.5, 117.0, 117.5, 118.0, 118.5, 119.0, 119.5, 120.0, 120.5, 121.0, 121.5, 122.0, 122.5, 123.0, 123.5, 124.0, 124.5, 125.0, 125.5, 126.0, 126.5, 127.0, 127.5, 128.0, 128.5, 129.0, 129.5, 130.0, 130.5, 131.0, 131.5, 132.0, 132.5, 133.0, 133.5, 134.0, 134.5, 135.0, 135.5, 136.0, 136.5, 137.0, 137.5, 138.0, 138.5, 139.0, 139.5, 140.0, 140.5, 141.0, 141.5, 142.0, 142.5, 143.0, 143.5, 144.0, 144.5, 145.0, 145.5, 146.0, 146.5, 147.0, 147.5, 148.0, 148.5, 149.0, 149.5, 150.0, 150.5, 151.0, 151.5, 152.0, 152.5, 153.0, 153.5, 154.0, 154.5, 155.0, 155.5, 156.0, 156.5, 157.0, 157.5, 158.0, 158.5, 159.0, 159.5, 160.0, 160.5, 161.0, 161.5, 162.0, 162.5, 163.0, 163.5, 164.0, 164.5, 165.0, 165.5, 166.0, 166.5, 167.0, 167.5, 168.0, 168.5, 169.0, 169.5, 170.0, 170.5, 171.0, 171.5, 172.0, 172.5, 173.0, 173.5, 174.0, 174.5, 175.0, 175.5, 176.0, 176.5, 177.0, 177.5, 178.0, 178.5, 179.0, 179.5, 180.0, 180.5, 181.0, 181.5, 182.0, 182.5, 183.0, 183.5, 184.0, 184.5, 185.0, 185.5, 186.0, 186.5, 187.0, 187.5, 188.0, 188.5, 189.0, 189.5, 190.0, 190.5, 191.0, 191.5, 192.0, 192.5, 193.0, 193.5, 194.0, 194.5, 195.0, 195.5, 196.0, 196.5, 197.0, 197.5, 198.0, 198.5, 199.0, 199.5, 200.0, 200.5, 201.0, 201.5, 202.0, 202.5, 203.0, 203.5, 204.0, 204.5, 205.0, 205.5, 206.0, 206.5, 207.0, 207.5, 208.0, 208.5, 209.0, 209.5, 210.0, 210.5, 211.0, 211.5, 212.0, 212.5, 213.0, 213.5, 214.0, 214.5, 215.0, 215.5, 216.0, 216.5, 217.0, 217.5, 218.0, 218.5, 219.0, 219.5, 220.0, 220.5, 221.0, 221.5, 222.0, 222.5, 223.0, 223.5, 224.0, 224.5, 225.0, 225.5, 226.0, 226.5, 227.0, 227.5, 228.0, 228.5, 229.0, 229.5, 230.0, 230.5, 231.0, 231.5, 232.0, 232.5, 233.0, 233.5, 234.0, 234.5, 235.0, 235.5, 236.0, 236.5, 237.0, 237.5, 238.0, 238.5, 239.0, 239.5, 240.0, 240.5, 241.0, 241.5, 242.0, 242.5, 243.0, 243.5, 244.0, 244.5, 245.0, 245.5, 246.0, 246.5, 247.0, 247.5, 248.0, 248.5, 249.0, 249.5, 250.0, 250.5, 251.0, 251.5, 252.0, 252.5, 253.0, 253.5, 254.0, 254.5, 255.0, 255.5, 256.0, 256.5, 257.0, 257.5, 258.0, 258.5, 259.0, 259.5, 260.0, 260.5, 261.0, 261.5, 262.0, 262.5, 263.0, 263.5, 264.0, 264.5, 265.0, 265.5, 266.0, 266.5, 267.0, 267.5, 268.0, 268.5, 269.0, 269.5, 270.0, 270.5, 271.0, 271.5, 272.0, 272.5, 273.0, 273.5, 274.0, 274.5, 275.0, 275.5, 276.0, 276.5, 277.0, 277.5, 278.0, 278.5, 279.0, 279.5, 280.0, 280.5, 281.0, 281.5, 282.0, 282.

[illegible]

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Figure 1 consists of four bar charts, one for each category: Total, Male, Female, and Unknown. Each chart shows the percentage of respondents for six age groups: 18-24, 25-34, 35-44, 45-54, 55-64, and 65+. The y-axis represents the percentage from 0 to 100. The x-axis lists the age groups. The bars are color-coded: 18-24 (light blue), 25-34 (medium blue), 35-44 (dark blue), 45-54 (light green), 55-64 (medium green), and 65+ (dark green).

Category	18-24	25-34	35-44	45-54	55-64	65+
Total	15%	25%	20%	20%	15%	5%
Male	10%	20%	25%	20%	15%	10%
Female	20%	30%	15%	20%	10%	5%
Unknown	10%	15%	20%	25%	20%	10%

The American People	10	100	100	100
Wild World	10	100	100	100
ABC Life 24	10	100	100	100
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The French Goose	6-55	12-55

EXTENDING WHITE LIGHTNING - By R. Ross

Osco software released a utility called WHITE LIGHTNING sometime in 1984. It was, and still is, an enormously powerful sprite manipulation language and very good. Just-as-machine-code games can be written with it.

The only real problem, as far as I am concerned, lies in the editor. WHITE LIGHTNING is divided into 23 screens with 4 lines to program in in each screen. Adding the command --> at the end of the screen tells the compiler to move on to the next screen. Unfortunately, the editor can work on only one such a screen at a time and your editing has no effect on the general layout of the program. If, for example, you wish to include a sound routine and the screen where you want to add it is in full you are stuck; insert a new line and the bottom line is lost. It would have been very useful indeed if one could have an insert command which shifts the entire program down when you add a line.

I have produced a solution using P&B, a temporary workspace used while editing. Follow my instructions carefully and you should be able to extend your WHITE LIGHTNING to include such a command. Remember to type in everything very carefully; leaving out even a space causes an error message (CR) means Carriage Return when you encounter this-- press ENTER.

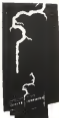
Firstly, LOAD in your WHITE LIGHTNING program and answer no to load sprites or load screens. Now type in the following:

```
0 LIST 0 END 1 END 2 END 3 END 4 END 5  
END (CR)
```

After screen 4 has scrolled into view, type the

```
0 VARIABLE RCN 0 VARIABLE RD 0 VARIABLE LNK (CR)  
- WRL -1 0 DO 1 0 1- RE -1 +LOOP (CR)  
- EY CLS (CR)  
RCN 0 RD 0 DO 1 LIST WRL 1 1- LIST 7 0 1 LIST 0 RE -1 (CR)  
+LOOP RCN 0 LIST LNK 0 1- 0 DO 1 0 1- RE -1 +LOOP LNK 0 1 (CR)  
7 WRL CLS RCN 0 LIST (CR)
```

WHITE LIGHTNING



The OK also should now appear on the screen, and your program can be entered from line 0 to 5 of screen 5. Now type
a LOAD (CR)
Wait a short while for the program to be compiled. When the OK message type
a CLEAR (CR)

Get a blank tape ready and connect the correct leads for saving. Type
WARM-COOL (CR)
to enter the new command. Type
PROD (CR)
to enter basic. Save the code with
SAVE "FORTE" CODE 0400,16000

In future, when you load WHITE LIGHTNING from tape, load the header of the original copy, stop the tape and continue loading the new code you have just generated.

The command INT for InbT has been added. There are certain system variables which point to INT. These are RCN, RD and LNK. RCN holds the screen where you wish to add the line, RD holds the total number of screens from 0 to the end of your program and LNK holds the number of the line you wish to insert. Always add 2 to RD if the total is less than 24 as a safety measure.

For example you want to insert a line at number 4, screen 8 and your program stretches up to screen 15. Type
 R ROW 1 (R) NO 1 (R) LINE 1 (RT)

Unfortunately, this command executes very slowly. After entering it, you could wait anything up to 15 seconds before the new program is listed with the blank line added. Don't worry if you see some flickering on the monitor while you wait.

All this aside, old WHITE LIGHTNING veterans will agree with me that it is extremely useful.

On the subject of WHITE LIGHTNING, try the following for some interesting noises:

```
: GOI 1000 S DO 0 1000 END /SLEEP LOOP : (CR)
: GOI 900 0 DO 0 1 SLEEP 0 900 1 - /SLEEP LOOP
: (CR)
```

The commands can be executed with
 GOI (CR)
 or with
 GOI (CR)

Do you have any problems with WHITE LIGHTNING? Why not send me a letter via THE 12 MIDNIGHT CLUB and I'll see if I can help you.

```

  000000
00000  0000  L L L
0000  0000  L L L
0000  0000  L L L
000000  000  L L L
      00000  L L L L L L L L L

```

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REVIEW

The Tomorrow War
South African Software
Price £ 11.90

Background

The time is 2038, Libya dropped 12 hydrogen bombs over Japan and China, Northern Korea was destroyed, Vietnam returned to a massive state of smoldering when Russia declared war and America followed within two days. When all forms of hostility finally ceased in 2037, very little of the world was left. Australia, Europe, America and Russia were the only survivors. It is in this gloomy setting that Germany decided to unite all the countries again. Many of them would join out of free will, but a few would have to be conquered.

Gameplay and Aim

The aim is to conquer the 14 countries involved by means of war or propaganda. Some countries are stronger in some aspects than others, some are generally powerful. After a few games you should find it relatively easy to become the dominant country - by convincing people. If you have enough weapons and a high morale. The game is divided into 2 sections of planning a section for preparation and a section for propaganda, and a section where war may be declared. Gameplay is divided into years and the game ends when Germany has no more money, no more people, have conquered the 14 countries or when 80 years have passed.

Mr. computer

Being a strategy game, the minimum of graphics are used. All data is given in a 64 character wide screen format, something to keep in mind if you know that your TV does not behave when you use random programs (such as Forward II). The few graphical displays, such as the one of Europe are very good.

To start the game, you have to concentrate and take all the facts into consideration before making any decisions. A pen and paper comes in quite handy to keep track of all the variables e.g. money, W's, propaganda etc. etc.

Northern Africa is not included in the list of 14 countries to survive. The Tomorrow War, neither in South Africa the winning country (Germany was chosen for this). Did the writers do this because of a lack of imagination? Were they aware as to what our country South Africa or Namibia and therefore left on our? Or do they doubt the existence of South Africa/Namibia by the year 2038? Or did they conclude that the Overpopulation would have established the Federation and that no foreign intervention such as a hydrogen bomb would be tolerated? Or did they seek legal advice and didn't want to be prosecuted for using their own propaganda techniques on you-know-who?

Anyway, apart from this apparent confusion, the game's quality is as good as any from abroad, and deserves a good support from South African strategists.

Packaging is done in an ordinary cassette case, the label is (typed) black and white and the instruction booklet is (printed) in small print. Overall, the packaging is not as impressive as the British counterparts, but then you do not pay that much (either give up on packaging then game quality). It is also undesirable if one remembers that South African manufacturers cannot invest a lot in production, since the market is smaller than in the U.S.

At the price, it is very good value for money.

- Gert Coetzee

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- Dr. Peter Comfort

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 Just as important, she is developing a computer key board
 skill and she is quite at home with the computer. She is 4
 and a half and is 2nd 1.

The program starts by asking for the number of words. The
 screen can currently set up for ten words of ten characters
 each. Adjustments to Line 20 for the number and length of
 words can easily be done.

The program then asks you to type in the correct words.
 After these have been entered, the program then calls for
 the actual spelling list to be entered. This can be done by
 simply calling out the homework spelling words at random.
 When all the words have been entered, the program then lists
 each word that has been entered by the child. Correct words
 are printed in green, followed by "OK". Incorrect words are
 printed in red followed by "Wrong". At the bottom of the
 screen a score is given. If all the words are correct, the
 child is given a congratulatory message. A small menu then
 appears which gives the option of trying again, if there
 were any wrong spellings, starting a new game if fresh words
 are to be tested, or a further message for spelling.

Naturally she is never allowed to quit before she gets the
 congratulatory message!

The program works by a simple string search routine. For
 those who do not own a QL or have no knowledge of SuperBASIC
 it gives no example of "top down programming" and the
 advantages of being able to write procedures and functions
 etc.

Reading the main program drives demonstrates how one can
 tackle the problem by simply naming the steps involved.

I want to emphasize that it is a child spelling program and
 one would not be expected to enter large numbers of words as
 the techniques used in the program are not appropriate for a
 full spelling checker.

The number of searches that the computer has to do will be
 the square of the number of words entered. So ten words
 will require 100 calculations and 200 will require 400
 calculations etc.

The amount of time involved in doing string searches would
 therefore be inappropriate for a large number of words.
 Nevertheless it will certainly cope with any normal child's
 homework. I do hope that some of our parents find some use
 for this little program.

```

100 MODE 1
110 PAPER 2:INK 5
120 DIM words(10,10): DIM spell(10,10): DIM forw(10)
130 GOTO 2,0-INK 0:PRINT "CHECK YOUR SPELLING"
140 GOTO 1,0-INK 4:AT 1,0:PRINT "by Peter Cooper's" GOTO 2,0-INK 5
150 REMARK *****
160 REMARK ***** MAIN PROGRAM DRIVERS *****
170 REMARK *****
180 enter_data
190 CLS:PAPER 2:INK 5
200 enter_spelling
210 check_spelling
220 report_spelling
230 score
240 another_go
250 REMARK *****
260 REMARK ***** PROCEDURE DEFINITIONS *****
270 REMARK *****
280 DEFINE PROCEDURE enter_data
290 GOTO 2,0:AT 2,0-INK 1:PRINT "How many words? (Enter a number) "in
300 FOR word=0 TO 9-1
310 AT 3+word,0:PRINT "Word no. "word+1" : "AT 3+word,10:PRINT word
320 stored(word)=word
330 END FOR word
340 END DEFINE enter_data
350 DEFINE PROCEDURE enter_spelling
360 INK 0:PRINT "Enter your spelling"INK 5
370 AT 3,0:INK 1,0:PRINT "All letters in small or large case?" GOTO 2,0
380 FOR word=0 TO 9-1
390 AT 3+word,0:PRINT "Word no. "word+1" : "AT 3+word,10:PRINT ""
400 spell(word)=
410 END FOR word
420 END DEFINE enter_spelling
430 DEFINE PROCEDURE check_spelling
440 FOR m=0 TO 9-1
450 FOR n=0 TO 9-1
460 IF spell(m)=stored(n) THEN flag(m)=1
470 NEXT n
480 NEXT m
490 END DEFINE check_spelling
500 DEFINE PROCEDURE report_spelling
510 FOR spelling=0 TO 9-1
520 IF flag(spelling)=1 THEN :INK 0:PRINT spell(spelling):" is OK":INK 5:GOTO 7 spelling
530 IF flag(spelling)=0 THEN INK 0:PRINT spell(spelling):" is WRONG":INK 5:GOTO 7 spelling
540 END FOR spelling
550 END DEFINE report_spelling
560 DEFINE PROCEDURE score
570 count=0
580 FOR m=0 TO 9-1
590 IF flag(m)=1 THEN count=count+1
600 END FOR m
610 PRINT:PRINT "Your score is "count"/"in
620 IF count=0 THEN AT 10,00:PRINT "CONGRATULATIONS"
630 END DEFINE score
640 DEFINE PROCEDURE another_go
650 AT 10,00:PRINT "1. Try again?"
660 AT 11,00:PRINT "2. Another Game?"
670 AT 12,00:PRINT "3. Redline?"
680 AT 13,00:PRINT "Enter 1,2 or 3 "number
690 SELECT ON number
700 =1:FOR file=0 TO flag(9):GOTO 7 file:GOTO 10
710 =2:CLEAN:GOTO 1
720 =3:CLS:GOTO 3,0:INK 4:AT 10,0:PRINT "Bye Bye Brown Eyes":AT 10,0:PRINT "Ready? Spell " GOTO 2,0:GOTO 10:GOTO 10:GOTO 10
730 END SELECT
740 END DEFINE another_go

```

THE Z88 A COMPUTER WITHOUT COMPROMISE!



GERT CORTZEE'S REVIEW AFTER EXTENSIVE USE OF THE FIRST Z88 IN SOUTH AFRICA

One of the advantages of being the Editor, is being 'in' on new developments - and in this newsletter I share with you another of Sir Sinclair's dreams which came true. You I had on hands on the only Z88 in the good old E of SA for a full day.

As you know, the inventor of the Sinclair series of computers named Sinclair Research died upon a time. They came bad times, and the company was sold to Alan Sugar's AMSTRAD. Sir Clive Sinclair founded a new company called CAMBRIDGE SYSTEMS (CS) and it was rumoured that CS would bring out a portable called the Pandora.

On 17 February this year on the Which Computer? show the Z88 was unveiled. Now, only a short while later (by Sinclair's standards) it is clear to me what the Sir meant when he proclaimed as a computer without compromise.

PRESENTATION

The Z88 will sell through INFORMATION ENTERPRISES at R229.00. It is sold in a silver box. 10cm x 10cm x 5cm which has a handle - promising great portability. One side of the box opens (is hinged) and reveals a subdivision separating the compartments for the manual and Z88 itself.

So far, I'm impressed.

HANDS ON

As all Sinclair owners could have guessed, the computer is black. Its vital statistics are 200mm (width) x 270mm (depth) x 15mm (height). The keyboard area makes out the front 100mm of the depth and the display area the back 50mm (the screen itself measures 100mm x 100mm). The basic Z88 with batteries weighs 910 GRAMS! - how's that for portability?

The keyboard is described as having 'index moving' keys. This however, is euphemistic way of saying it is made of the same latex (rubber) which was used for the original Spectrum. **BUT PLEASE READ ON!** When I saw this I wanted to try but got myself together and faced reality. I'm glad I did. The individual keys are not separated by a metal overlay as on the Spectrum, which made pressing of the keys difficult at times and touch typing tough. The keys are not as close to each other as those on the QL. So if it had to be latex, that is a good compromise. And let's face it, no other key mechanism would have fitted into such a portable package. The underlying mechanism, as on all other Sinclair designs is a masterpiece. An SINCLAIR USER said in their review 'I'm isn't actively fingerbusting too?'. In fact, my typing speed is 40 words per minute, and the Z88 handles it quite well.

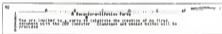


On the right hand side is a RS232C port and I think I am glad to report that by the looks of it, it is a standard RS232C! The RS232 port can be used to send lamp data, printer is supported through the built-in software! or to communicate with any IBM or IBM compatible through the built in Import/Export software. This software can be used to export to or import from any IBM compatible. A disk with converting software (RS200) will be needed by the host computer and will make IBM data compatible with Lotus 123 WordPerfect and Wordstar data. The RS232 can also be used if the IBM is used as a terminal through the built in Terminal software! This software uses the EBC protocol for communication between the IBM and another computer, or the IBM and another IBM. Another use for the RS232 port is communication through a modem (RS2000 from CIS) which will be Pentium (and therefore Intel) compatible - 1200/9600 baud. This seems like a bad choice - I doubt whether graphics will be handled satisfactory. The modem should either have been 144/19200 baud since most fast datalinks use this. Maybe some independent company will come up with such a modem.

Also on the right (covered) is a IDE expansion bay which has all the possibilities of handling future peripherals for CD or independent compression. A useful peripheral could be a disk drive preferably IBM compatible.

On the left hand side are a mouse adapter port, a reset button and a screen contrast control. The reset button is hidden and will only be used the day you buy the computer - no chance of accidentally pushing it. (Since the computer has a real time clock, it is never completely off: data is maintained through the 'sleep' state.)

The screen is a Liquid Crystal Display (LCD) screen. I found nothing wrong with it except for the fact that the users are have to be as close as a cat at too large an angle with the display. The backlight and superdot type LCD may have been a better choice but this takes up more space, costs more and needs more power. The letters on the display are quite clear, no flickering and in fact the best resolution I've seen on a computer/calculator of this size. One minor negative aspect is the lack of true dimensions - i.e. it's the sort of thing in the car.



On the rear there is a stand which can be pulled down to allow the computer to stand at an more acceptable angle. Also on the rear is the battery compartment. Four pen light batteries are needed. The batteries are good to last 20 hours in full use or one year if when the computer is used the mouse adapter port (i.e. a power pack) is used. I would think that one should buy 8 rechargeable batteries, a recharger and swap the batteries whenever the batteries low signal is displayed. When batteries are swapped depending on the memory expansion or the IBM because of a special expansion, you have up to 4 minutes to make the swap without data loss. If you have the mouse adapter plugged in you can take your time - no fear of any loss.

On the front there is a door to the housing of up to three RAM or EPROMs - more about this later.

The IBM uses four main chips including a custom chip which handles the display and a CPU processor.

The basic IBM comes with a 32K RAM 1K which is available in the user manual of 128K words! This, however should not put you off.

STORAGE

As said before on the front up to three RAM or EPROM cartridges can be plugged in. These RAM and EPROM cartridges measure 38 X 50 X 7mm.

RAM cartridges are available in 128 (8M400) or 128K (8M16000) words. This means that you can have 128K available as a maximum in RAM. This is enough to hold the equivalent of a 150 pages paperback novel ready for immediate access and editing. The RAM cartridges can not be removed without loss of contents.

An alternative to these RAM cartridges are EPROM cartridges, available in 32K (84820) and 128K (817820) units. The difference is that these EPROM cartridges can be unplugged without loss of data. Should one want to erase the contents of such an EPROM, an UV Eraser is necessary (812602).

One even can load to RAM an EPROM as one loads or saves to tape or disk on other computers. EPROMs is said to have more advantages - it is not as delicate as disks and do not scratch or break as tapes do. As long as you do not expose them to ultra violet light no harm will come to your data.

Naturally to say, you can have any combination of RAM or EPROM cartridges plugged in at once.

Already under development at CAMBRIDGE SYSTEMS are 1 Mbyte (maybe a 1000K) EPROMs which will allow you to have up to 3 Mbytes plugged in for instant access. 3 Mbytes will hold the complete works of Shakespeare.

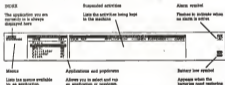
SOFTWARE

Included on ROM and instantly accessible are a range of 12 applications. They are dealt with below:

The display screen for these applications is divided into four sections:-

- (1) a large wide area of 8 X 80 characters which is scrolled both horizontally and vertically,
- (2) a smaller screen map of this complete page is the name of the word processor, database and spreadsheet, which is changed and updated as these are used,
- (3) topic screen - holding options / status
- (4) status section - for alarm, memory and battery status

Whenever the INDEX key is pressed, the following screen appears:-



On the right a list of all possible menu's for the specific Application you are using appears. One can access menu's by pressing the MENU key. Of course, it is not necessary to go through all menu's to get to a specific function. All functions have a code eg 40 for Basic 40 for Pipetream, 49 for width specification etc. etc. This can be typed in directly using the 0 and 9 keys and the appropriate code.

The next part of the INDEX screen displays all suspended activities (ie if there are more than six, the first six, the others can be scrolled to). Activities are suspended if you press INDEX while you are busy using an Application - it is automatically suspended and listed here. You can continue with this or any other suspended application or start a new application by clearing with the cursor. Information regarding suspended activities displayed are type reference and day and time when suspended.

As said before, there is only 12K RAM on the Basic 300 available. This 12K is used mainly to keep track of the suspended activities.

The 12 Applications are:

1. **The Diary** - make an entry, move between days, search for entries, use calendar & diary together.



2. **The Calculator** - Clear, Delete, 3 Memories, Swap x and y, π , i , \pm , change sign, $\frac{1}{x}$, $\frac{1}{y}$. Unit for converting units e.g. gallons \leftrightarrow liters, seconds.



3. **The Calendar** - search for a day, display a month, display entire days (the days which have entries in the diary).



4. **The Clock** - day, month, year, time.

5. **The Alarm** - set the alarm to go off on a specific date at a specific time - or a specific date every year or a specific time every day etc. etc.

6. **The File** - to keep track of documents stored on EPROM or RAM cartridges, catalogue, move files, make copies, remove files etc. etc. If at a later stage a disk is attached to the EM the same functions will be used.

7. **The Page** - allows you to set up aspects of the EM's operation to suit your own preferences. You can alter the rate at which keys on the keyboard are repeated when you hold them down, the time after which the EM automatically switches to sleep (default), device and parameters for the serial interface.

8. **FileScreen** - this is the all-in-one WORD PROCESSOR, DATABASE and SPREADSHEET. It features:



Page display map
Displays a map of the
text on the current page.

Operations on finding and slots

Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last
---	---	---	---	---	---	---

Moving Around the Document

Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last
---	---	---	---	---	---	---

Working with files

Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last
---	---	---	---	---	---	---

Editing text and expressions

Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last
---	---	---	---	---	---	---

Altering the document format

Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last
---	---	---	---	---	---	---

Document's content

Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last
---	---	---	---	---	---	---

Printing Documents

Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last	Find Find Next Find Previous Find All Find First Find Last
---	---	---	---	---	---	---

Expression slot: any slot in a FindFrame document can be designated as an expression slot, in which case the expression you type in it will be evaluated and the result will be displayed in the corresponding position in the document - thus acting as a spreadsheet within the word processor.

ERIC Basic - due to limited space I will not go into this. You might ask, why ERIC Basic? Obviously Sinclair could not get permission from Amstrad to use Sinclair Basic in his new computer!

10. Printer - attaching the existing printer driver used in PipeDream for your own printer (bold, bold, underline, etc.)

11. Terminal - provides protocol for communication between the IBM and another computer

12. Import/Export - allows files to be exported or imported from/to IBM format.

MANUAL

The Manual is a 15 x 25 cm, single-sided, softcover, 232 page, high quality paper, book. A far as the user is concerned, everything is dealt with in full details and the user is coached step by step. However, the manual comes short on information on the use of the Terminal Application. If we typed this review on the IBM and then I sent it over to the QL, not by using the understandable Terminal software, but by using the Print Option, through a IBM serial to QL serial cable which I made up, and it worked O.K.

Not to mention the complete lack of any information on the hardware - nothing about the expansion bus, nothing about the EBCDIC bus. Nothing. Nothing.

MY FINAL WORD

YOUR COMPUTER said "definitely looks promising and if supported properly could be a great success". KIMCLAIR GREEN said about the previous model "it's black, it's cheap and it's not finished".

My own opinion is that the unit I had for review is definitely the final product - state of the art, high tech good stuff.

Earlier portable computers such as the NEC PC6801 and TANDY MODEL 100 costed approx. \$1500.00. For the same price you can get the basic IBM (8810-00) plus three IBM EPCROM or RAMs plus an Ethern Reader. So as long as you realize the basic unit is not your final unit, the IBM is cheap.

The IBM's use as a cheap portable terminal for the businessman you will download documents and data from your IBM in the office and look/ward with it at home. Journalists, think of the possibilities - you can send your article through a modem straight to the editors desk. Business can follow the trend set by Metropolitan - they use the Spectrum in the customers home to work out the details of a policy - the IBM is even more portable. Researchers, when doing field work, data do not have to be written on forms, you can type in data on the IBM and download it once you get back.

As it stands, it is limited (as is the case with all new computers) but it has impressive applications and a futuristic design. With sufficient backup in the form of add-on hardware such as modems and disk drives, I Marie EPCROM, software on PROMs the possibilities are endless.

As a very powerful word processor, diary and alarm clock and general desk-top organizer I know that quite a number of our members will be interested in the IBM, as first or as second home computer.

Please note that the prices mentioned in this article are ingress/degress

DEFINITIONS OF ABBREVIATIONS USED IN THIS ARTICLE

RAM - Random Access memory: memory which works in an infinite blackboard, allowing its contents to be changed either by the user or according to program. The program is able to use the RAM for programs it runs as well for storing data for immediate use. The IBM uses a CMOS Complementary Metal Oxide or Silicoid RAM - a RAM type which retains its memory after power-down. Most even for this a very low constant voltage is still supplied.

ROM - Read only Memory: ROM can not be written to, neither can its contents be destroyed by overwriting or by depriving the chip of power - information is fixed by the manufacturer in the silicon.

PROM, EPROM, PEROM - The last known example: PEROM was the kind that you wipe under an intense ultraviolet light, but there are two other common erasable technologies, electrically erasable and electrically erasable (EEROMs and EEPROMs). Programs for the IBM will come on PEROMs (i.e. ROMs programmed by Software House). The IBM User will make use of either ROM or electrically erasable EPROMs.

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 only 47.000)

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 01217841818 after 15h00

LPRINT III Interface 8100 - Phone Aston
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 Mr van Niekark 021-2181886 after 14h00

If a member bring near Springfield
 has any knowledge of the Software CP300K
 and ZIL PRINT, could you please contact
 Mrs. Thakern at Hatfield Farm, PG 8ee
 57112, Springfield, 3333

Mr Mohamed wrote "Last January we've been
for Space Shuttle and Shuttle" In the way.
FOEL 04421.8 will give you infinite minutes
in 'Star Slider'. Please note this applies
to those who have the necessary hardware
i.e. Multiface II. Does anyone have any
other prices for 'Star Slider'?

THOUGHT FOR THE MONTH A computer is only as
good as the people who are employed to
maintain the people who were made redundant
by the computer

Mr Mohamed asked whether it is possible for
INFORMATION ENTERPRISES to distribute
SINGLAIN USES

FE did investigate that if they import the
magazines, they will do this by air, which
will mean that members will receive their
magazines in the month it is published in
the U.K. However, the price will be more or
less the same as the price currently charged
by C.E.A. via their import via mail. Any
comments?

TOP 30

Title		Publisher			
ARMY INVOLUTOR	1	CODE MASTERS	ARMY MOVIE	24	IMAGINE
ARMY RACE	2	MASTERTRONIC	SHADOWS OF AMERICA	25	WET-BOY/ONE BOY
BARRAGE	3	PALACE	SHOOT RACE	26	ACTIVISION
STORMBRINGER	4	MASTERTRONIC	CURSE OF SHERWOOD	27	MASTERTRONIC
FEED	5	BULLDOG	LAVERNE	28	ACCESS-LS GOLD
OLYMPIC SPECTACULAR	6	ALTERNATIVE	SCIENTIST	29	UNION
FOOTBALL MANAGER	7	ADDICTIVE	SPEED RACE 2	30	MASTERTRONIC
J BALL	8	FORNEX	PAPERBOY	31	ELITE
ARCADE	9	CODE MASTERS	WAG 4	32	DUBELL
ICE FAN	10	WTF FAN	HEAD OVER HEELS	33	OCEAN
WOLFMAN	11	BULLDOG	SAROTON 2	34	DUBELL
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CHASE AND LISA	14	FINNED	IN	37	MASTERTRONIC
VAMPIRE	15	CODE MASTERS	ANDROMEDA	38	ALTERNATIVE